LHX series User Distribution Amplifier

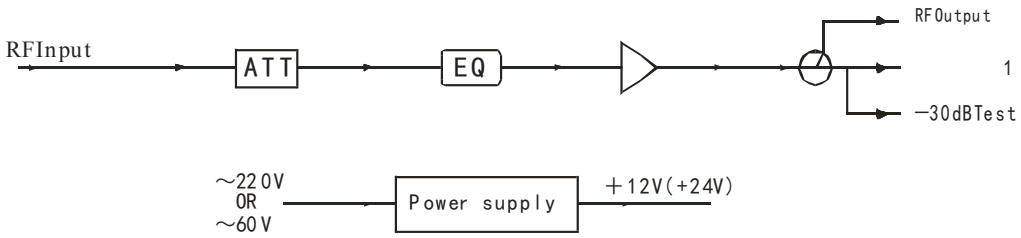
User's Manual

Adopt high-output Philips microwave component amplifier, perfect fore-and-aft power doublers and fore-and-aft independent forward and reverse test ports suitable for bi-directional distribution network.

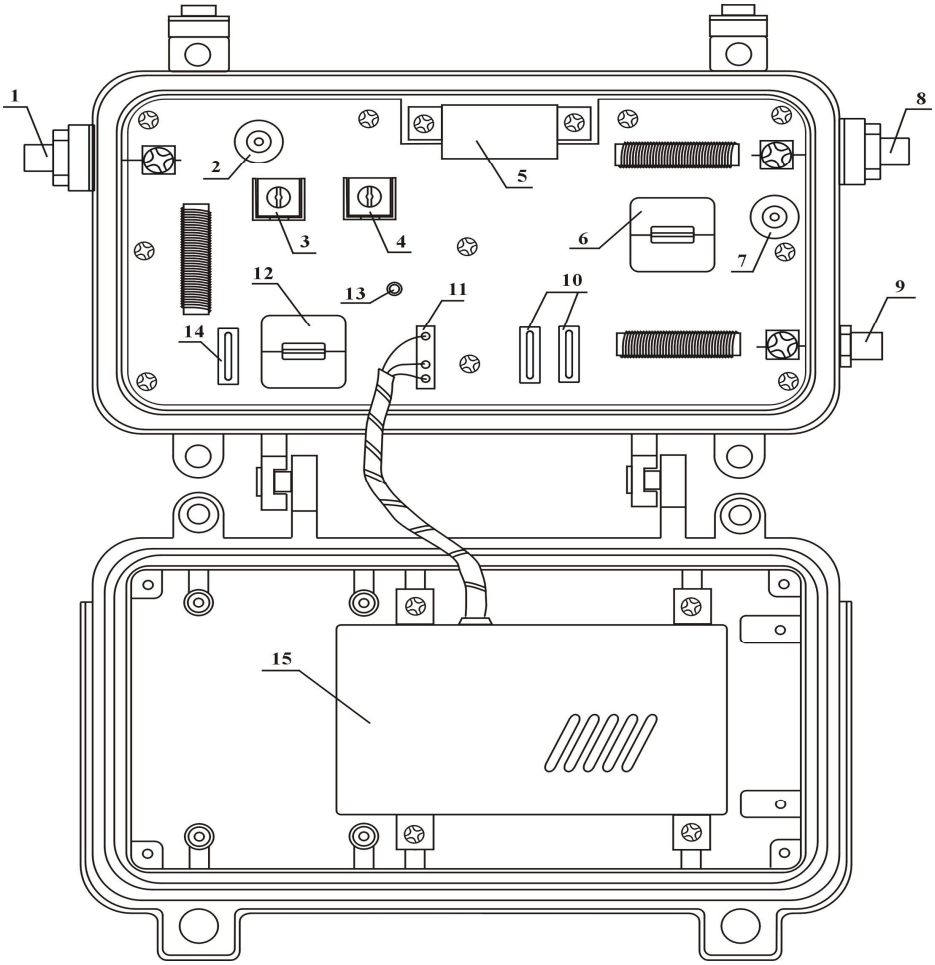
1.Character parameters:

Item	Unit	LHX- 5130A/B	LHX-7130A/B	LHX-8130A/B
Forward Transmission				
Frequency Range	MHz	45~550	45~750	45~862
Rated Gain	dB	30		
Rated Input Level	dBμV	72		
Rated Output Level	dBμV	102		
Flatness in Band	dB	±0.5	±0.75	±1
Noise Figure	dB	≤9	≤10	≤12
Return Loss	dB	≥14		
C/CTB (84 PAL-D)	dB	≥61	≥61	≥58
C/CSO (84PAL-D)	dB	≥60	≥60	≥55
Signal to Noise Ratio	%	< 2		
Voltage Stroke	KV	5(10/700μS)		
Rated Stability Gain	dB	-1.0 ~ +1.0		
Speciality Impedance		75		
MAX Output Level	dBμV	≥110		
Carrier to second order intermodulation ratio	dB	≥52		
Carrier alternate noise ratio	dB	≥66		
General Response				
Power Voltage(50Hz)	V	A version AC (165~250) V; B version AC(30~60)V		
Power consumption	VA	8		
Dimension	Mm	178(L) x 100 (W) x 55(H)		

2. Principle Drawing:



3.Product Structure



1. RF Input
2. RF Input Test Port: (-20dB)
3. Variable ATT 0-15dB
4. Variable EQ 0-18dB
5. RF Amplifier Module
6. Output Taps / Splitters
7. –30dB RF Output Test Port
8. RF Output 1
9. RF Output 2
10. Power Pass Plug-in
11. Main-board Input Plug
12. Output Taps / Splitters
13. Power Supply Main-board LED
14. Input Power Pass Plug-in
15. Switching Power Supply